

ATG TCG CAG CCC AAG AAA AGA AAG CTT GAG TCG  
↑SEQ ID NO:3→

SEQ ID NO:2  
SEQ ID NO:1

G G G G E G G E G T E E E D G A E R E A 31  
GGG GGC GGC GGC GAA GGA GGG GAG GGA ACT GAA GAG GAA GAT GGC GCG GAG CGG GAG GCG 93

A L E R P R R T K R E R D Q L Y Y E C Y 51  
GCC CTG GAG CGA CCC CGG AGG ACT AAG CGG GAA CGG GAC CAG CTG TAC TAC GAG TGC TAC 153

S D V S V H E E M I A D R V R T D A Y R 71  
TCG GAC GTT TCG GTC CAC GAG GAG ATG ATC GCG GAC CGC GTC CGC ACC GAT GCC TAC CGC 213

L G I L R N W A A L R G K T V L D V G A 91  
CTG GGT ATC CTT CGG AAC TGG GCA GCA CTG CGA GGC AAG ACG GTA CTG GAC GTG GGC GCG 273

G T G I L S I F C A Q A G A R R V Y A V 111  
GGC ACC GGC ATT CTG AGC ATC TTC TGT GCC CAG GCC GGG GCC CGG CGC GTG TAC GCG GTA 333

E A S A I W Q Q A R E V V R F N G L E D 131  
GAG GCC AGC GCC ATC TGG CAA CAG GCC CGG GAG GTG GTG CGG TTC AAC GGG CTG GAG GAC 393

R V H V L P G P V E T V E L P E Q V D A 151  
CGG GTG CAC GTC CTG CCG GGA CCA GTG GAG ACT GTA GAG TTG CCG GAA CAG GTG GAT GCC 453

I V S E W M G Y G L L H E S M L S S V L 171  
ATC GTG AGC GAG TGG ATG GGC TAC GGA CTC CTG CAC GAG TCC ATG CTG AGC TCC GTC CTC 513

H A R T K W L K E G G L L L P A S A E L 191  
CAC GCG CGA ACC AAG TGG CTG AAG GAG GGC GGT CTT CTC CTG CCG GCC TCC GCC GAG CTC 573

F I A P I S D Q M L E W R L G F W S Q V 211  
TTC ATA GCC CCC ATC AGC GAC CAG ATG CTG GAA TGG CGC CTG GGC TTC TGG AGC CAG GTG 633

K Q H Y G V D M S C L E G F A T R C L M 231  
AAG CAG CAC TAT GGT GTG GAC ATG AGC TGC CTG GAG GGC TTC GCC ACG CGC TGT CTC ATG 693

G H S E I V V Q G L S G E D V L A R P Q 251  
GGC CAC TCG GAG ATC GTT GTG CAG GGA TTG TCC GGC GAG GAC GTG CTG GCC CGG CCG CAG 753

R F A Q L E L S R A G L E Q E L E A G V 271  
CGC TTT GCT CAG CTA GAG CTC TCC CGC GCC GGC TTG GAG CAG GAG CTG GAG GCC GGA GTG 813

G G R F R C S C Y G S A P M H G F A I W 291  
GGC GGG CGC TTC CGC TGC AGC TGC TAT GGC TCG GCG CCC ATG CAT GGC TTT GCC ATC TGG 873

F Q V T F P G G E S E K P L V L S T S P 311  
TTC CAG GTG ACC TTC CCT GGA GGG GAG TCG GAG AAA CCC CTG GTG CTG TCC ACC TCG CCT 933

F H P A T H W K Q A L L Y L N E P V Q V 331  
TTT CAC CCG GCC ACT CAC TGG AAA CAG GCG CTC CTC TAC CTG AAC GAG CCG GTG CAA GTG 993

E Q D T D V S G E I T L L P S R D N P R 351  
GAG CAA GAC ACG GAC GTT TCA GGA GAG ATC ACG CTG CTG CCC TCC CGG GAC AAC CCC CGT 1053

R L R V L L R Y K V G D Q E E K T K D F 371  
CGC CTG CGC GTG CTG CTG CGC TAC AAA GTG GGA GAC CAG GAG GAG AAG ACC AAA GAC TTT 1113

A M E D \* 376  
GCC ATG GAG GAC TGA 1128  
←SEQ ID NO:3↑

CGGTTGCCCAAGGGGCAATTCGTTTAAACCTGCAGGACTAG

FIG 1

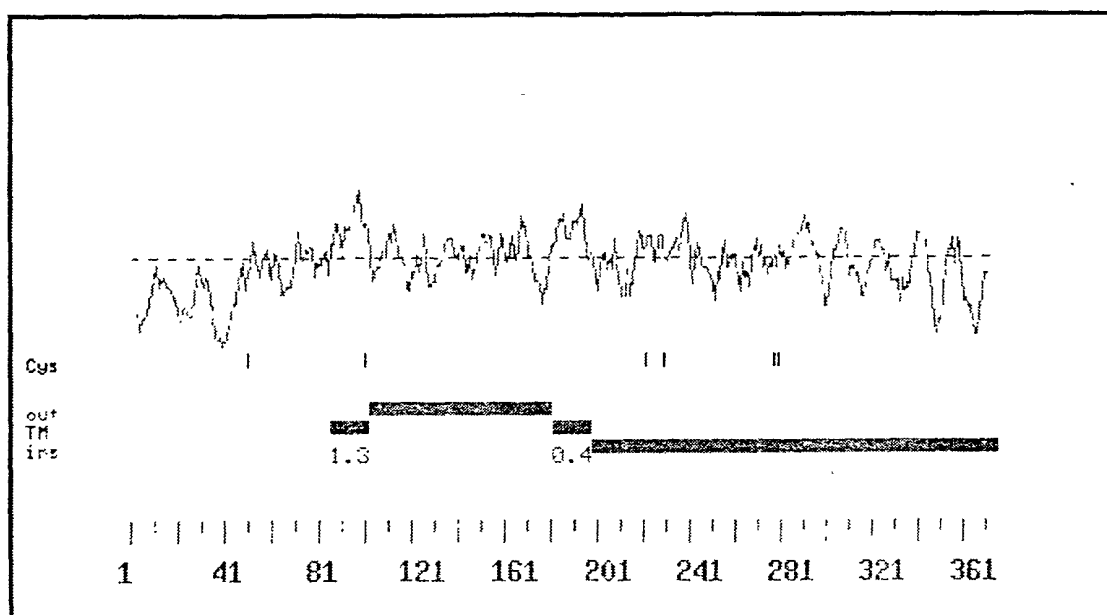


FIG. 2

\*->iptsydiiGDivilnipdElrpyrkviGailkktkkNEMAVvKtVl SEQ ID NO:4  
+ +++++ + Ea+l++ ++  
27419 19 -----EGTEEDGAEREAALERPRR----- 38  
rkkggeedFEGLLGEGYGitGeyRtrrlellLAGekdSGEtvtihkEnGc.r  
+ +r++ L+ e +S v +h E + +r  
27419 39 ---T-----KRERDQLYYECYS--DVSVEEMIAdr 64  
fkldVsvKVYfSprLegERERlak..lvkeGEvVvDmFAGiGPFsIpiAkh  
+ D+ rL + ++ + G +V+D+ AG G sI +A  
27419 65 VRTDA-----YRLG-----ILRnwAALRGKTVLDVGAGTGILSIFCAQ- 102  
sKakrVyAvdlNPeavkY..LkeNikLNKvedqpKIQTvVNkIipIlgDv  
+ a+rVyAv+ ++ +++++e ++ N +ed ++ + g v  
27419 103 AGARRVYAVE---ASAIWqqAREVVRFNGLD-----RVHVLPGPV 140  
revipekeagvhsIvklvvaDRvi...Mplplarvgqisahefldkalrk  
++v++ + + D +++++ M++ l + + + l+ +  
27419 141 ETVEL--PE-----QVDAIVsewMGYGL--LHESMLSSVLHARTKW 177  
vkdggilvsviHYeflpekaipflpverikraaekeGvkveilkrkvk  
+k+gg lp++a e ++ a++ + +++  
27419 178 LKEGG-----LLLPAASA-----ELFI--APIS----DQMLEWRLG 206  
nYaPgvyhvvlDarvn<-\*  
+ + h+++D +  
27419 207 FWSQVKQHYGVDMSCl 222

FIG. 3

Query: 186 PASAELFIAPISD-QMLEWRLGFWSQVKQHYGVDMSCLEGFATRCLMGHSEIVVQGLSGE 244  
P L + I D Q + ++ FW V YG +MSC++ A + + +  
Sbjct: 1 PDKCTLHLTAIEDTQYKDEKINFWDV---YGFBMSCMKDAAIKEPIVDPKYN-HVVDPN 56 SEQ ID NO:5  
Query: 245 DVLARPQRFQLELSRAGLEQELEAGVGGRFRCSCYGSAPMHGFaiwFQVTF-----PG 298  
++ P + ++ + +LE F+ + + +H F WF V F P  
Sbjct: 57 QIITDPCTIKEFDmHTVKIS-DLETFTSP-FKLTvKRNGMLHAFTAWFDVYFTSKRCHPI 114  
Query: 299 GES-EKPLVLSTSPFHPATHWKQALLYLNEPvQVEQDtdVSGEITLLPSRDNPRLRVLL 357  
E+ +KP+ ST P P THWKQ + Y+ +P+ V+ + G IT+ ++ N R L + L  
Sbjct: 115 PEaIDKPVGFSTGPQSPYTHWKQTIIFYMEDPLVKTGDTIEGSITISKNNKNNRDLDTL 174  
Query: 358 RYKVGdQEEKT 368  
+ V +++ T  
Sbjct: 175 SWNVNQRQDPT 185

FIG. 4

FIG. 3

Query: 57 HEEMIADRVRTDAYRLGILRNWAALRGKTVLDVGAGTGILSIFCAQAGARRVYAVEAS-A 115  
H MI D R +A+ L + R V D+G+GTGILS A+ V A+E +  
Sbjct: 142 HIRMINDVKRNEAFAKA-LNDTIKSRTITVFDIGSGTGILSAIAARK-TNLVTALEENMC 199 SEQ ID NO:6

Query: 116 IWQQAREVVRFNGLIEDRVHVLPGPVETVELPEQVDAIVSEWMGYGLLHESMLSSVLHART 175  
+ ++EV++ NG+E RV+V E E+ D +VSE + + E ++ + L A  
Sbjct: 200 LTMISKEVLKRNGVESRVNVHAKNSTYFETCEKADIVVSETLDCCVFGEKIVETFLDAHV 259

Query: 176 KWLKEGGLLLP 186  
++ + + +P  
Sbjct: 260 RFSHDRTIFIP 270

FIG. 5

Query: 40 KRERDQLYYECYSDVSVHEEMIADRVRTDAYRLGILRN 77  
K + D Y++ Y+ +HEEM+ D VRT++YR I N  
Sbjct: 10 KTDDEYYFYFDSYAHYGIHEEMLKDSVRTESYRDFIYHN 47 SEQ ID NO:7

FIG. 6

Query: 43 RDQLYYECYSDVSVHEEMIADRVRTDAYRLGILRNWAAL 81  
+D+ Y+ Y + +H EM+AD+ RT Y IL+N +L  
Sbjct: 14 QDEEYFGSYGTLKLHLEMLADQPRTTYHVSILQNKESL 52 SEQ ID NO:8

FIG. 7

FIG. 5

Query: 75 LRNWAALRGKTVLDVGAGTGILSIFCAQAGARRVYAVEASAIWQQAR-EVVRFNGLIEDRV 133  
LR AA+R + LDV G G ++ +S+ W + +V + +G++ +V  
Sbjct: 190 LRRQAAIRTDs-LDV-QGLGSREDLLSEVSGPSCPLTRSSSFWGGSSIQVQQRSGIQSKV 247 SEQ ID NO:9

Query: 134 HVLPGPVETVELPEQVDAIVSEWMGYGLLHESMLSSVLHARTKWLKEGGLLLPASAELEFI 193  
+ + LP + W E+ S L W+ G LLP+S E +  
Sbjct: 248 S-----KHIRLPAPCPGLEPSWAKDP--PETRSSLELDTELSWIS--GDLLPSSQEEPL 297

Query: 194 AP-----ISDQMLEWRLGFWsQVKQHYGVDMSCLE-GFATRCLMGHSEIVVQGLSGE 244  
P + Q R GFW ++ + + +SCL+ G R S + Q L G  
Sbjct: 298 FPRDLKKCYSVETQSCRRRPGFWLDEQRRHSIAVSCLDsGSPRLCPSPSLGGQPLGGP 357

Query: 245 DVLARPQRFAQLELSRAGLEQELEAGVGGRFRCS 278  
+RP++ +LS + + G R CS  
Sbjct: 358 G--SRPKK----KLSPPSISIDPPESQGSRPPCS 385

FIG. 8

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